

**Robert Pitman - NMFS - Member of Pacific Sea Turtle Recovery Team**  
**Personal Communication March 19, 2002**  
**858-546-7092**

Two classes of turtles

Leatherbacks - deep water

Face more serious problems than exposure to pollutants

Hardshells - Very rare in WA

Problems facing these species are severe

Fishing by-catch

People disturbing nests,

Taking adults for food

These problems dwarf environmental problems

**Peter Dutton - NMFS -**  
**Personal Communication March 19, 2002**  
**858-546-5636**

More interest in doing research on sea turtles and chemical pollutants

Information is just not there

No baseline for pollutants either

Don't know the role pollutants play, but it could be significant

Despite conservation, numbers still dropping

Besides human killing of sea turtles, effects [of chemical pollutants] could be significant

There is concern, but just no information

**Kathy Moore - National Ocean Service (NOS), Charleston**  
**843-762-8514**  
called LM

**Therri Work - USGS Hawaii**  
**808-541-3445**

**Pat Fair - NOS**  
**843-762-8533**  
called LM

- Tom Houghlin -

July 15, 2002

- dogs, bears, - can be surrogate
- use same precautions we would use for other mammals
- no concern about pollutants bc no evidence
- heavy metals + organochlorines most studied
- no link between chemical + effects in spp.
- <sup>some say</sup> pollutants are <sup>extr</sup> abstract that will weaken
- this pop. from BC + Alaska + they are increasing  
no animals from reserve shoot
- 70 → not a cause of decline, but may be a cause of concern

1200 6th Ave, MS: ECL-112  
Seattle, WA 98101  
206.553.6316

Potential found

in feeding and  
when pesticides are used

Wannan

as potential  
toxin in manure

implicated

- haven't be

2001

of manure (manure medicine)

look more

D'Arcy et al 1994

D'Arcy  
Goller

IPC Handbook

Tom O'Shea

Todd O'Brien

Medicine

- effects on

- Gina Yli-talo July 15<sup>th</sup>

860-3325

- call Gina Alleluia

- not sure on anything

- Lynd Johnson - Science Center July 18<sup>th</sup>

## **SEA TURTLES**

### **Contacted:**

Peter Dutton - NMFS -

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858-546-5636

See below for notes

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### **Tried to contact:**

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Therri Work - USGS Hawaii

808-541-3445

Pat Fair - NOS

843-762-8533

called LM

## **SEA LIONS**

### **Contacted:**

Tom Loughlin - NMFS

206-526-4040

tom.loughlin@noaa.gov

See below for notes

## **WHALES**

### **Contacted:**

Lyndal Johnson - Science Center

206-860-3345

See below for notes

Gina Ylitalo - Science Center

206-860-3325

See below for notes

John Calimbokitis - Cascadia Research

360-943-7325

See below for notes

Peggy Krahn - Science Center

called but unable to help

**Tried to contact:**

George Dixon - University of Waterloo, Ontario

519-888-4567 ext. 2531

dgdixon@sciborg.uwaterloo.ca

e-mailed, no reply

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Despite conservation, numbers still dropping

Besides human killing of sea turtles, effects [of chemical pollutants] could be significant

There is concern, but just no information

**Tom Loughlin - NMFS**

**Personal Communication July 15, 2002**

**206-526-4040**

If no info, use other mammals as surrogates - dogs, bears, etc. - and use same precautions we would use for other mammals (marine and terrestrial)

No concern about pollutants because no evidence

Heavy metals and organochlorines most studies

No link between chemical and effects in species

Some say pollutants are an extra straw that will weaken these species - he doesn't agree

The population of sea lions in this area [off coast of Washington/Puget Sound/Straits of Georgia] is increasing

Not a cause of decline, but may be a cause of concern

**Lyndal Johnson - Science Center**  
**Personal Communication July 15, 2002**  
**206-860-3345**

Not sure about issue  
Gave contact - Gina Ylitalo

**Gina Ylitalo - Science Center**  
**Personal Communication July 15, 2002**  
**206-860-3325**

Discussed CRC Handbook of Marine Mammal Medicine, eds: Dierauf and Gulland  
Copper hasn't been implicated as a potential toxin in marine mammals  
O'Shea study of manatees - discounted b/c problems found in feeding areas where copper pesticides had been intensively applied

**John Calimbokitis - Cascadia Research**  
**Personal Communication July 18, 2002**  
**360-943-7325**

Not as high concern with copper and cyanide

More concern with anthropogenic sources  
For naturally occurring chemicals, marine mammals may have developed a way to deal with the chemicals  
For "new" anthropogenic chemicals (i.e. mercury, DDT, etc) they may have not developed a way to process and excrete these chemicals

He has never seen or heard of copper being a problem for marine mammals  
[b/c no research?]